

Datasheet: 6625-1010 **BATCH NUMBER 152653**

MOUSE ANTI RAT NESTIN
NESTIN
Purified
Monoclonal Antibody
Rat-401 (4D4)
lgG1
0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	•			1/40 - 1/400
Immunohistology - Paraffin	•			1/40 - 1/400
Western Blotting	•			
Immunofluorescence	-			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Rat
Species Cross	Reacts with: Mouse
Reactivity	Does not react with:Human
	N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form	Purified IgG - liquid

Buffer Solution	TRIS buffered glycine.	
Preservative Stabilisers	0.05% Sodium Azide (NaN ₃)	
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml	
Immunogen	Nestin purified from embryonic rat spinal cord.	
External Database Links	UniProt: P21263 Related reagents Entrez Gene: 25491 Nes Related reagents	
RRID	AB_2151135	
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the NS1 myelon line.	ma cell
Specificity	Mouse anti Rat Nestin antibody, clone Rat-401 recognizes rat nestin, a large intermediate filament protein transiently expressed in embryonic glian cells (McKay 1985). It is predominately expressed in stem cells of the developing nervo system. Terminal differentiation is associated with a loss of nestin expression. Nesexpression has also been noted in other embryonic tissues, also in most Glioblas multiformes and many melanomas.	ous stin
Immunohistology	We recommend perfusing tissues with 4% paraformaldehyde at pH 7.4 for light microscopy or with either 4% paraformaldehyde at pH 10.0 or 4% paraformaldehyde 0.1% glutaraldehyde at pH 7.4 for EM. For Immunocytochemistry we recommend cells fixed in 4% paraformaldehyde buffered with 50 mM sodium borate at pH 9.5	using
Western Blotting	Mouse anti Rat Nestin antibody, clone Rat-401 reacts with a band at 200-220 kDa reducing gels of newborn rat or mouse cell extracts. For western blotting it is recommended that samples should be boiled in 4 volumes of 125 mM Tris, pH 6.8 2-mercaptoethanol, 10% glycerol and 4.6% SDS. Membranes should be blocked or BSA. 5% PAGE gels are suggested.	8, 10%
References	 Arnold, T.D. <i>et al.</i> (2012) Defective Retinal Vascular Endothelial Cell Developm Consequence of Impaired Integrin αVβ8-Mediated Activation of Transforming Gro Factor-β. J Neurosci. 32: 1197-206. Mori, T. <i>et al.</i> (2005) Combination of hTERT and bmi-1, E6, or E7 induces prote of the life span of bone marrow stromal cells from an elderly donor without affecting neurogenic potential. Mol Cell Biol. 25: 5183-95. Choi, J.S. <i>et al.</i> (2010) Expression of vascular endothelial growth factor receptor mRNA in the rat developing forebrain and retina. J Comp Neurol. 518: 1064-81. Choi, J.S. <i>et al.</i> (2007) Upregulation of vascular endothelial growth factor receptors. 	wth ongation ng their or-3

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Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10072 available at: https://www.bio-rad-antibodies.com/SDS/6625-1010 10072
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) <u>HRP</u>
Goat Anti Mouse IgG (STAR76...) <u>RPE</u>
Rabbit Anti Mouse IgG (STAR13...) <u>HRP</u>

Goat Anti Mouse IgG (STAR70...) FITC

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (STAR77...) HRP

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M363379:200528'

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